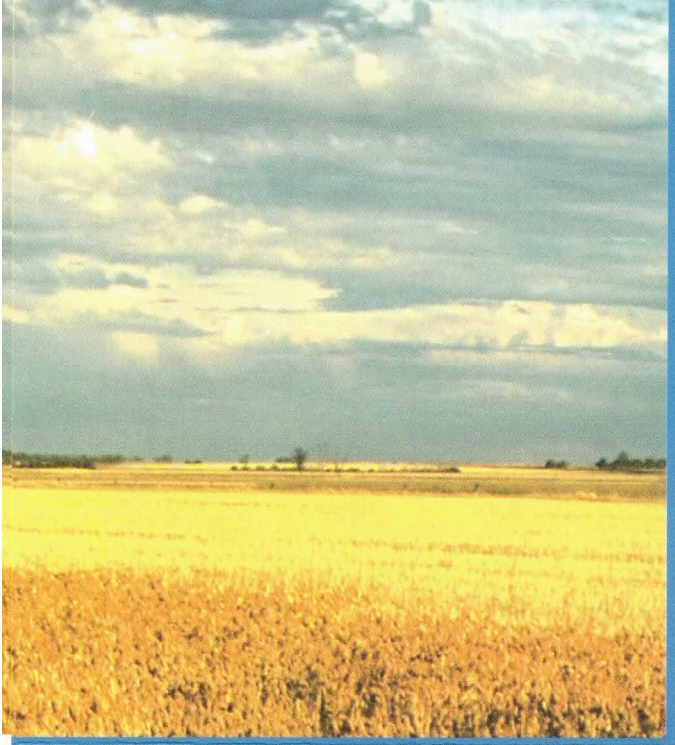
MobileNet®

CDMA update

A special bulletin for CDMA customers from Telstra MobileNet®

- CDMA coverage maps now available
- CDMA rollout an ongoing success
- The next phase of the CDMA network rollout
- How to maximise the coverage of your CDMA handset
- Now CDMA gives you new fax and data services
- New CDMA network features
- Are you making the most of the CDMA mobile network coverage?

Telstra
Making life easier™



Now CDMA gives you new fax and data services

Circuit-switched fax and data transmissions can now be sent over the CDMA *Freedom*™ network using a suitably equipped mobile handset with an in-built fax and data mode, offering consistently faster transmission than the analogue network – twice or even three times as much in some cases. Digital fax (Class 2.0) is also supported at the same speeds.

At present, there is one CDMA handset available through Telstra authorised dealers that is suitably equipped to support fax and data – the Qualcomm QCP 860.

Telstra also plans to make a range of other services available on the CDMA network later this year, including Wireless Application Protocol (WAP) and Internet access.

New CDMA network features

The CDMA network offers more than just increased coverage. It also provides you with a host of new features, designed to make your life easier.

MessageBank® – Message Waiting Indicator

One of the standard features of every CDMA phone is the 'envelope' symbol, which indicates that there are messages waiting. Up until now this has not been available on the network, and you have been receiving a call with a recorded message to advise that there are voice mail messages waiting for you.

Soon however, Telstra MobileNet will be providing this feature on the CDMA network. This will mean that when you are in CDMA mode, your phone will beep and/or an envelope will appear on your screen to let you know you have messages. (The feature will not be available if the phone is operating in analogue mode.)

Keep an ear to your *MessageBank*® service for more information on when the Message Waiting Indicator will be available!

SMS – Text Messaging Service

Sometimes, the best way to send a message is in writing. Telstra MobileNet Short Message Service (SMS) is now available on the CDMA Freedom network to receive messages.

Initially, MobileNet SMS will be limited to incoming SMS, which means you will be able to receive a text message on the screen of your CDMA phone from another Telstra GSM service. Originating SMS – the ability to send a text message from your CDMA phone to another CDMA or GSM digital service, will be introduced on the CDMA Freedom network later in the year.

Please note however, the current range of CDMA phones do not have SMS originating functionality.

If you'd like to know more about MobileNet SMS, please call our 24 hour Customer Service Centre on **018 018 111** (no call charge*).

MobileNet Memo®

MobileNet *Memo*,® a personalised message service that enables your mobile phone to operate discreetly as a pager, is now available on the CDMA Freedom network. The MobileNet Memo receptionist can take a message from people who call your CDMA phone while it is switched off or out of range. This message will be displayed on your phone's display the next time your phone is switched on and within range.

MobileNet Memo is perfect for people whose business depends on incoming calls, as it ensures that your phone is answered by another person if you're not available. If you'd like to know more about MobileNet Memo, please call our 24 hour Customer Service Centre on **018 018 111** (no call charge*).

And more . . . coming soon to a phone near you!

MobileNet *PocketNews*™ will be available shortly, giving you fingertip access to real-time information – news, weather, sport, stock updates, horoscopes and more! Later this year will see the introduction of Wireless Application Protocol (WAP) and Internet access on the CDMA network.

Keep your eye on *CDMA Update* or visit **www.mobilenet.telstra.com.au** for more information.

CDMA coverage maps now available

Detailed CDMA coverage maps for most states are now available at Telstra Shops and Telstra *MobileNet*® dealers. The maps show actual coverage as at November 1999, plus coverage completed in April 2000. They also include a rollout schedule which details the additional coverage planned for completion by July 2000.

The maps also show handheld coverage vs coverage for handheld phones in a car kit with external antenna, making it easy to see how much additional coverage is achieved with the kit and antenna. In fact, using the external antenna will assist in linking coverage between many of the country towns along the major highways.

We urge you to pick up a copy of the latest CDMA coverage maps from your nearest Telstra Shop or Telstra MobileNet dealer and use them next time you go on a trip. With the CDMA coverage maps, you can see where you can get the best possible coverage.

The next edition of the CDMA coverage maps will be available in July/August 2000.

CDMA rollout an ongoing success

Telstra is continuing to roll out the CDMA network across Australia in world record time. There are now more than 1,600 base stations providing coverage comparable to analogue, and Telstra has already brought CDMA into many areas that were not covered by the analogue network at all.

By July this year, the new CDMA network will have over 2,100 base stations. This will bring **additional coverage** to more than 200,000 people across Australia who previously had poor or non-existent analogue coverage.

The next phase of the CDMA network rollout

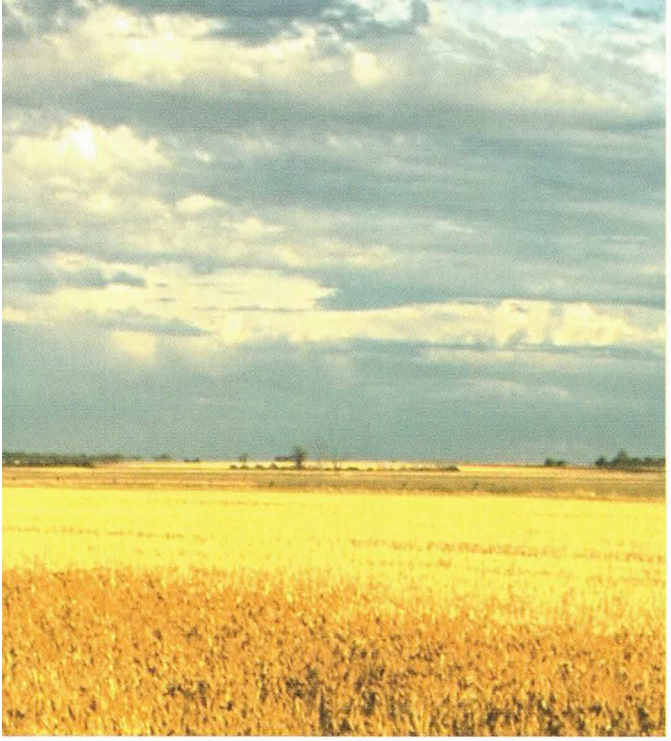
Victoria

Coverage completed April 2000

- Existing analogue and digital (GSM) areas in the South Gippsland region. Major towns covered: Wonthaggi, Inverloch, Leongatha, Korumburra, Warragul, Warburton, Moe, Morwell, Traralgon, Sale, Bairnsdale and Orbost.
- Major highways covered in these areas: Princes Highway, South Gippsland Highway, Bass Highway.
- Existing analogue areas in Western Victoria. Major towns covered: Ballarat, Warrnambool, Colac, Portland, Hamilton, Horsham, Ararat, Nhill, Maryborough, St Arnaud, Charlton, Donald, Wedderburn, Wycheproof and Stawell.
- Major highways covered in these areas: Western Highway, Wimmera Highway, Princes Highway, Sunraysia Highway, Henty Highway and Calder Highway.
- Also covered: Mildura and parts of the Calder and Sturt highways.

Coverage by July 2000

- Western Victoria. The existing areas covered by the digital (GSM) network from Geelong to Portland; Ballarat to SA border. Major towns covered: Casterton, Coleraine, Peterborough, Port Campbell, Apollo Bay, Lorne, Warracknabeal, Dimboola, Nhill. Improved depth of coverage in Beaufort and Heywood.
- The Mallee. The existing areas covered by the digital (GSM) network from Bendigo to Sea Lake. Major towns covered: Ouyen, Hopetoun, Sea Lake, Birchip, Culgoa, Speed, Manangatang, Hattah and Robinvale. Improved highway coverage from Mildura to Renmark.
- East Gippsland. The existing areas covered by the digital (GSM) network from Orbost to Mallacoota, including coverage in the towns of Cann River, Genoa, Mallacoota and improved depth of coverage in Orbost. New coverage at Tidal River and Mirboo North.
- Central Victoria. Improved coverage in the following areas: Koondrook, Barham, Rochester, Rushworth, Murchison, Mooroopna, Castlemaine and Maldon.



New South Wales

Coverage completed April 2000

- Existing digital (GSM) and other locations north from Sydney on the Pacific and New England highways. Major towns and areas covered: Gosford, Swansea, Nerong, Bulahdelah, Forster, Nabiac, Taree, Pt Macquarie, Kundabung, Kempsey, Urunga, Coffs Harbour, Grafton, Yamba, Woodburn, Byron Bay, Lismore, Tarro, Maitland and Rutherford.
- South from Sydney on the Princess, Hume, Federal and Monaro highways. Major towns and areas covered: Theodore, Sutton, Forest, Yarra, Gunning, Bookham, Goulburn, Bowna, Little Billabong, Coolac, Gundagai, Albury, Thurgoona, Berry, Tumut, Yass, the ANU and the foreshores of Lake Burley Griffin.
- Areas west from Sydney: Kandos, Canowindra and Cootamundra.
- Also covered: Galore, Lockhart, Moree, Lightning Ridge, Narrabri, Hay, Leeton, Wagga Wagga, Tumut, Gloucester, Dungog and Keajura.

Coverage by July 2000

- Existing digital (GSM) and other locations along parts of the Princes, Newell, New England, Mid Western and Mitchell highways. Major towns include Blayney, Oberon, Bombala, Narooma, Corowa, Finley, Grenfell, Crookwell, Narromine, Trangie, Warren, Nyngan, Cobar, Bourke, Walgett, Guyra, Merriwa, Coonamble, Walgett, Widgiewa and Denman.

Queensland

Coverage completed April 2000

- Along the Bruce Highway from Gin Gin to Rockhampton. Major areas covered: the Gladstone, Rockhampton and Yeppoon areas, as well as west of Gladstone in the Biloela, Moura and Theodore vicinities.
- Parts of the Capricorn Highway, including Edungalba, Blackwater and Emerald; plus parts of the Gregory Highway, including Springsure, Capella and Clermont.
- Major towns include Miriam Vale, Calliope, Gladstone, Boyne Island, Raglan, Bajool, Rockhampton, Gracemere, Parkhurst, Stanwell, Yeppoon, Emu Park, Marlborough, Biloela, Moura, Theodore, Banana, Edgalbunga, Blackwater, Emerald and the Longreach area.

Coverage by July 2000

- North of Rockhampton at Clairview and Koumala and along the majority of the Bruce Highway from Sarina to Cairns, including Sarina, Mackay, Proserpine, Airlie Beach, Shute Harbour, Hamilton Island, Bowen, Collinsville, Ayr, Home Hill, Townsville, Cardwell, Ingham, Tully, Mission Beach, Innisfail, Cairns and Port Douglas.
- Parts of the Flinders Highway, between Townsville and Charters Towers, Hughenden, Cloncurry and Mt Isa.
- The Tablelands in the Mareeba and Atherton vicinities, plus the Bowen basin area in the vicinities of Middlemount, Tieri, Gregory, Dysart, Peak Downs and Moranbah, then along the Peak Downs Highway from Moranbah through to Nebo area.
- Other towns include Collinsville, Cardwell, South Mission Beach, Jungarra, Newell Beach, Cooktown and Gemfields.

South Australia

Coverage completed April 2000

- Murray Bridge, Tailem Bend and along the Dukes Highway (Highway 8) linking with the Western Highway to Melbourne.
- Mannum and Karoonda
- The greater south east area, including Keith, Bordertown, Padthaway, Naracoorte, Lucindale, the Coonawarra, Penola, Nangwarry, Millicent, Pt Macdonnell, Beachport, Robe and Kingston. CDMA coverage will also be extended to Pt Lincoln.

Coverage by July 2000

- Along the Sturt Highway to include the Riverland and the towns of Waikerie, Morgan, Barmera, Berri, Renmark and Loxton.
- Along the Mallee Highway to Lameroo and Pinnaroo.
- Ceduna and Thevenard, Coober Pedy, Woomera, Hawker and Roxby Downs.

Northern Territory

Coverage by July 2000

- The greater Darwin area, including Palmerston, Humpty Doo and Berry Springs.
- Katherine and Tindal
- Tennant Creek
- Alice Springs and Yulara
- Nhulunbuy and Yirrkala
- Jabiru

Western Australia

Coverage completed April 2000

- Remaining areas in south west WA, including most of the Albany and Great Southern highways. Major towns include Cranbrook, Pingelly, Albany, Denmark, Mt Barker, Manjimup, Bridgetown, Pemberton, Narrogin, Wagin, Katanning, Kojonup, Walpole and Boddington.
- Coverage will also be provided to the City of Kalgoorlie/Boulder.

Coverage by July 2000

- Esperance, the central Goldfields and the mid-west of WA. Major areas covered: Esperance, Kambalda, Norseman, Southern Cross, Marvel Loch, Moora, New Norcia, Goomalling, Dowerin, Corringin, Quairading, Coolgardie, Wongan Hills, Jurien, Cervantes, Dongara, Kalbarri and sections of the Brand Highway.
- The Gascoyne, Pilbara and Kimberley regions. Major towns include Carnarvon, Coral Bay, Denham, Exmouth, Onslow, Karratha, Dampier, Wickham, Tom Price, Paraburdoo, Newman, Port Hedland and South Hedland, Broome, Derby, Fitzroy Crossing, Halls Creek, Kununurra, Wyndham, Meekatharra and Mount Magnet.
- In the Great Southern and south eastern agricultural areas: Gnowangerup, Ongerup, Jerramungup, Ravensthorpe, Hopetoun and Bremer Bay.
- Nannup town

Tasmania

Coverage completed April 2000

- Existing analogue areas, including Hobart, Glenorchy, Clarence, Launceston, Devonport, Burnie and the areas around the major highways - Midlands Highway and Bass Highway.
- Major areas covered: Cygnet, Geeveston, Huonville, Margate, Blackmans Bay, Kingston, Hobart airport, Lauderdale, Midway Point, Sorell, Richmond, Campania, Runnymede, New Norfolk.
- The Midlands Highway between Hobart and Launceston, including Brighton, Bagdad, Kempton, Oatlands, Ross, Campbell Town and Perth.
- The Bass Highway between Launceston and Devonport, including Longford, Hadspen, Carrick, Hagley, Westbury, Deloraine, Elizabeth Town, Latrobe and Spreyton.
- The Bass Highway between Deloraine and Smithton, including the towns of Ulverstone, Penguin, Somerset, Wynyard and Smithton.
- East of Devonport, including Port Sorell and south including Railton and Sheffield.
- The Tamar Valley, including Legana and Exeter.

Coverage by July 2000

- Areas on the east and west coasts of Tasmania, including Port Arthur, Nubeena, Dunalley, Buckland, Orford, Triabunna, Swansea, Coles Bay, Bicheno, Avoca, Fingal, St Marys, Scamander, St Helens, Binalong Bay.
- Parts of the north east tip of Tasmania; Strahan, Queenstown, Zeehan and Rosebery; Scottsdale, Bridport, Pipersbrook, George Town and Beaconsfield.

How to maximise the coverage of your CDMA handset

1. CDMA Car Kits

It's worth remembering that the performance and coverage of your CDMA phone can be considerably improved by installing a car kit and external antenna.

The Telstra CDMA Product Manager, Greg Young, said that it was incorrect to expect a CDMA handset to achieve coverage comparable with an analogue car phone on its own.

"Customers who were using an analogue (3-watt) bag phone or car kit in a vehicle will need to install a CDMA car kit with an external antenna to achieve comparable coverage and performance," Mr Young said.

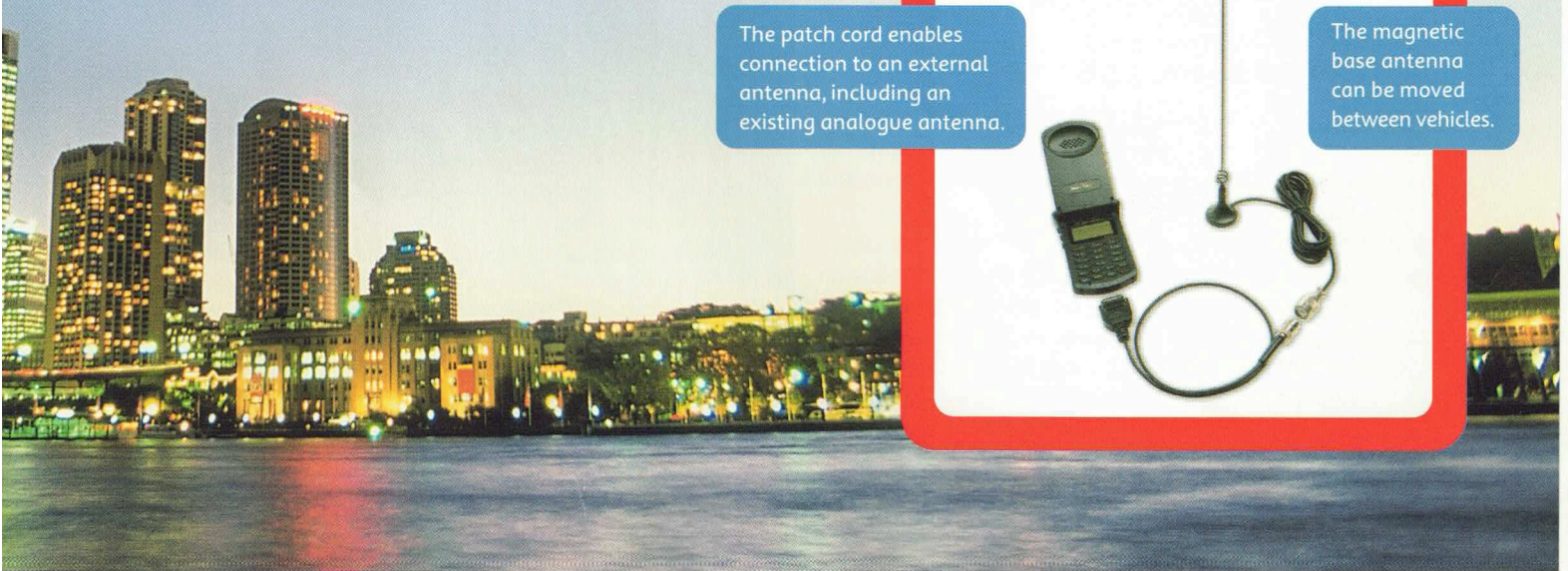
"Battery performance of the CDMA phone can also be extended when it is used with a car kit."

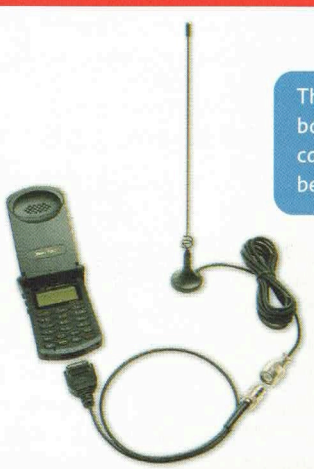
2. Patch cords

New patch cords make it even easier for CDMA users to take advantage of the additional coverage offered by an externally mounted antenna.

Patch cords allow CDMA handsets to be connected to an externally mounted antenna without a car kit being fitted, making CDMA handsets more interchangeable between vehicles and farm machinery.

Patch cords are available as an accessory for most phones from Telstra Retail Shops and the Telstra dealer network. Customers should be aware that patch cords only connect CDMA handsets to externally mounted vehicle antennas and do not provide the additional benefits of a car kit, including battery charging and hands free operation.





The patch cord enables connection to an external antenna, including an existing analogue antenna.

The magnetic base antenna can be moved between vehicles.

Are you making the most of the CDMA mobile network coverage?

1. How do I know if the CDMA phone I have purchased is comparable with my old analogue phone?

If you had an analogue car phone or a three watt boosted bag phone, you will need to install a CDMA car kit with an external antenna or a patch cord connected to an external antenna to achieve coverage comparable to analogue. If you live or travel regularly in regional and rural Australia, you should consider the fitting of a car kit or use of a patch cord; this will provide greater coverage than a handheld CDMA phone without an external antenna.

2. I used to take my analogue bag phone with me from vehicle to vehicle. Does this mean I have to purchase multiple car kits to get the same coverage?

No. The patch cord accessory lets you interchange CDMA handsets between vehicles, so most handsets can be connected to the external antenna and receive the benefit of additional coverage. Remember that these cords do not provide the additional features of a car kit, including battery charging and hands free operation. Patch cords are available from most Telstra Shops and Telstra dealers. (Use of non-manufacturer approved accessories may affect customers' rights under manufacturers' warranties. Telstra suggests that customers check with their handset manufacturer).

3. I've heard that the signal strength indicator on CDMA phones is not the same as on my analogue phone?

This is true. The signal strength indicator in CDMA phones is not directly comparable to the indicator in analogue phones. In CDMA mode, the signal strength indicator will move up and down quite often both during a call and in idle mode, even when the handset is not moving. This is because the signal strength indicator in CDMA mode is a combined measure of signal strength and signal quality, whereas analogue phones only measure signal strength. Thus direct comparisons between the two are invalid. A characteristic of CDMA is that it can support a high-quality call with very low incoming signal levels.

We'll keep you updated

As more and more benefits of the new CDMA network become available to more and more users, keeping you informed is our priority.

If you would like extra copies of *CDMA Update*, please call MobileNet 24 hour Customer Service on **018 018 111** (no call charge*).

You'll find even more CDMA information on the Internet at **www.mobilenet.telstra.com.au**

Don't forget to pick up a copy of the latest detailed CDMA coverage maps from your nearest MobileNet dealer.

* No call charge when call is made from a Telstra service, except *Telecard*.™

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